Radio Frequency Base

MAINS POWERED 230V~

RF Communication

Model Ei168 RF Base

- **Designed for use with Easi Fit range of alarms**
- **RF wireless interconnect**
- **Unique house coding feature**
- **Visual RF transmission indicator**
- **Advanced suppression and calibration technology**
- **Radio transmitter and receiver in each base**
- **Easi-fit design construction**
- **Tamper proof rechargeable lithium battery back up**
- **Low power cell warning**
- **RF performance to EN300220-3**
- **EMC performance to EMC 301489-3**
- **5 year guarantee**

Product Description

The Ei168 RadioLINK Base transmits a radio frequency (RF) alarm signal when the unit attached to it senses fire. When it receives an RF signal from another Ei168 Base, the attached alarm will sound. It therefore eliminates the need to install long interconnect wires between all the alarms on different floors in different rooms.

The Ei168 RadioLINK Base is designed for use with the Easi Fit range of mains powered alarms. The Ei168 itself is also mains powered and has rechargeable lithium cells for back-up in the event of mains failure.

The Ei168 base will normally be wired to the nearest mains circuit in the ceiling (usually the lighting circuit). The alarm is then slid onto the base rather than to its mounting plate. As many as twelve units can be interconnected in this way

The RF range can be extensively improved by either adjusting the wire antenna or by converting the base into a “repeater” i.e. re-transmission of the RF signals.

The Ei168 has built in circuitry to aid suppression of voltage transients and RF interference.

Operation

- In normal standby mode the amber indicator will light to indicate transmission of an RF signal
- In code mode, the amber indicator will flash to indicate the number of other RF alarms that have been “learned” in the system
- The red indicator on the alarm attached to the Ei168 Base will flash rapidly to show an alarm condition for the smoke detector
- The amber light will flash every 10 seconds to indicate that the battery back up is depleted

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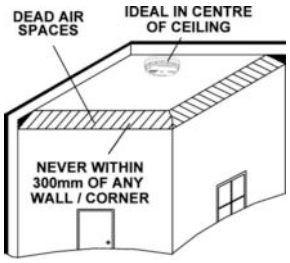
Model Ei168 RF Base

Technical Specification

Sensor	None
Supply Voltage:	230V AC
Battery back-up:	Rechargeable lithium cells
RF Range:	150 meters (min) free space
Range Improvement:	Adjustable antenna
RF Visual Indicator:	Amber light flashes continuously for 1.5 to 3.5 seconds while transmitting RF signal
RF Frequency:	868.499MHZ (1% duty cycle)
RF Power:	+5dBM
Dimensions:	150mm diameter x 19mm depth
Weight:	168g
Power-On Indicator:	Green light on the attached mains powered alarm can be seen
Alarm characteristics:	Available in the attached alarm
Temperature Range:	0^0 to 40^0 C
Humidity Range:	15% to 95% Relative Humidity
Interconnect:	Up to 12 RadioLINK products
Plastic material:	UL94VO flame retardant
Warranty:	5 year (limited) warranty
Approvals:	RF performance to EN300220-3 EMC performance to EMC 301489-3

Specifications are subject to change

Installation & Placement



Place the Ei168 Base on the ceiling/wall and mark the screw holes. Drill with a suitable drill bit, insert the screw plugs, connect to the nearest mains circuit and screw the base into position.

The RF Bases should be house coded to prevent possible interference from neighbouring installations – see instructions for more details.

Alarms should be placed in accordance with the general guidelines shown in the diagram above. These recommendations are based on the problem of areas of “dead air” close to corners of rooms and apexes of ceilings, which could result in the prevention of smoke reaching the smoke detector

House Code Procedure

1. Connect the base to the mains circuit and slide on associated alarm.
2. Hold the house code switch (with a small screwdriver) until the yellow light turns on and then release
3. Similarly, place other bases into house code mode
4. Check that the number of yellow flashes (on each base) corresponds to the number of bases in your system
5. Remove all bases from house code
6. Button test each alarm (attached to each base) to check your system

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